

Title (en)
IMPLANTABLE MICRO-BIOSENSOR

Title (de)
IMPLANTIERBARER MIKROBIOSENSOR

Title (fr)
MICRO BIOCAPTEUR IMPLANTABLE

Publication
EP 3771414 A1 20210203 (EN)

Application
EP 20189119 A 20200803

Priority

- US 201962882162 P 20190802
- US 202062988549 P 20200312

Abstract (en)

An implantable micro-biosensor includes at least one counter electrode (4), a first working electrode (2), a chemical reagent layer (6), and at least one second working electrode (3). The chemical reagent layer (6) reacts with an analyte to produce a product, such that a first sensing section (20) of the first working electrode (2) is driven to perform a measurement action. A second sensing section (30) of the second working electrode (3) is driven to perform an interference-eliminating action to consume interference. The second working electrode (3) cooperates with the counter electrode (4) to permit the counter electrode (4) to be driven to perform a regeneration action to regenerate silver halide.

IPC 8 full level
A61B 5/145 (2006.01); **A61B 5/1473** (2006.01); **A61B 5/1486** (2006.01)

CPC (source: CN EP KR US)
A61B 5/14503 (2013.01 - US); **A61B 5/1451** (2013.01 - EP US); **A61B 5/14532** (2013.01 - CN EP KR US); **A61B 5/14546** (2013.01 - US); **A61B 5/1473** (2013.01 - CN KR US); **A61B 5/14735** (2013.01 - US); **A61B 5/14865** (2013.01 - EP KR US); **A61B 5/686** (2013.01 - KR); **G01N 27/26** (2013.01 - CN); **G01N 27/3271** (2013.01 - KR); **G01N 27/3275** (2013.01 - KR); **G01N 27/3278** (2013.01 - KR); **A61B 2560/0223** (2013.01 - US); **A61B 2560/0468** (2013.01 - US); **A61B 2562/0215** (2017.08 - CN EP US); **A61B 2562/0217** (2017.08 - EP); **A61B 2562/028** (2013.01 - US); **A61B 2562/0295** (2013.01 - CN); **A61B 2562/125** (2013.01 - KR US); **A61B 2562/16** (2013.01 - CN US); **G01N 2800/042** (2013.01 - KR)

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